Attorney Docket No.: 0180204D



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

e Application of:

Lopatin, et al.

Serial No.: 10/626,371

Filing Date: July 23, 2003

For: Semiconductor Device Having Copper Lines with Reduced Electromigration Using an Electroplated Interim Copper-Zinc Alloy Thin

Film on a Copper Surface

Art Unit: Unknown

Examiner: Unknown

Customer Number 25700

Customer Number Bar Code Label:

45/00

REVOCATION AND POWER OF ATTORNEY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir/Madam:

Applicants of the above-identified patent application hereby revoke all previous powers of attorney given in this application and appoint Michael Farjami, Reg. No. 38,135; Farshad Farjami, Reg. No. 41,014; Elizabeth A. Apperley, Reg. No. 36,428; Bradley Botsch, Reg. No. 34,552; Paul S. Drake, Reg. No. 33,491; Daniel R. Collopy, Reg. No. 33,667; Michael Caywood, Reg. No. 37,797; Kent Cooper, Reg. No. 37,296; Harry A. Wolin, Reg. No. 32,638; and Keith Witek, Reg. No. 37,475, all attorneys, with full power of substitution and revocation, to prosecute this application, to make alterations and amendments thereto, to receive communications from the Patent and Trademark Office and to transact all business in the Patent and Trademark Office connected therewith.

Attorney Docket No.: 0180204D

Please direct all communications to:

Michael Farjami, Esq. FARJAMI & FARJAMI LLP 16148 Sand Canyon Irvine, California 92618 Telephone: (949) 784-4600

Facsimile: (949) 784-4601

Customer Number 25700

Customer Number Bar Code Label:

25700

PATENT TRADEMARK OFFICE

Advanced Micro Devices, Inc., a Delaware corporation, certifies that it is the assignee of the entire right, title, and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. The assignment was recorded at the Patent and Trademark Office at Reel <u>012649</u>, Frame <u>0001</u>, or for which a copy thereof is attached. The undersigned, whose title is supplied below, is authorized to act on behalf of assignee (37 CFR §3.73(b)).

Signed this 17 day of November 2003

(Signature)

On behalf of Advanced Micro Devices, Inc.

Paul S. Drake, Esq., Reg. No. 33,491 (Print Name)

Intellectual Property Portfolio Counsel and Assistant Secretary (Title)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

.....

Date of Depo

Signature of Person Mailing Paper and/or Fee

Typed or Printed Name of Person Mailing Paper and/or Fee

ASSIGNMENT AGREEMENT

FOR good and valuable consideration, receipt of which is hereby acknowledged, SERGEY LOPATIN, of Santa Clara, California, and ALEXANDER H. NICKEL, of Mountain View, California, hereinafter ASSIGNORS, do hereby sell, assign, and transfer unto ADVANCED MICRO DEVICES, INC., doing business at One AMD Place, M/S 68, P.O. Box 3453, Sunnyvale, California 94088, hereinafter ASSIGNEE, its successors and assignees, the entire title, interest and right, including the right of priority, in an application for Letters Patent of the United States, entitled METHOD OF REDUCING ELECTROMIGRATION IN A COPPER LINE BY ELECTROPLATING AN INTERIM COPPER-ZINC ALLOY THIN FILM ON A COPPER SURFACE AND A SEMICONDUCTOR DEVICE THEREBY FORMED, filed herewith, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, and any and all provisional, divisional, reissue, continuation, substitute, or renewal applications thereof which have been or shall be filed in the United States and any and all equivalents thereto in any and all foreign countries;

And for the above consideration ASSIGNORS covenant to assign to ASSIGNEE, under identical terms herein, any and all improvements which have been or shall be developed by ASSIGNORS regarding subject matter herein;

And for the above consideration ASSIGNORS agree promptly upon request of the ASSIGNEE, its successors and assignees, to execute and deliver without further compensation any power of attorney, assignment, application (whether original, continuation, renewal, substitute, divisional, or reissue) or other papers which may be necessary or desirable fully to secure to ASSIGNEE, its successors and assignees, the inventions and any of them described in said application and patent rights therein, in the United States and in any country foreign thereto, and to cooperate and assist in the prosecution of appeal and interference proceedings involving said inventions and/or in the adjudication or re-examination of said Letters Patent, provided that the expenses which may be incurred by ASSIGNORS in lending such cooperation and assistance be paid by ASSIGNEE; and

G0414 EL912235997US

ASSIGNORS covenant that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by ASSIGNORS, and that full right to convey the same as herein expressed is possessed by ASSIGNORS.

This agreement constitutes the entire agreement of the parties and supersedes and cancels any and all prior and/or contemporaneous utterances, statements, representation, understandings and/or agreements whether oral and/or written in connection with this agreement.

IN WITNESS WHEREOF, ASSIGNORS agree to the above-mentioned terms and conditions as below evidenced by their signatures:

12/2002

SERGEY LOPATIN

2/12/02

ALEXANDER H. NICKEL

STATE OF CALIFORNIA]
COUNTY OF Clares
On 02-12 02 page before me, Windy C. Deang &
personally appeared SERGEY LOPATIN,
personally known to me
OR proved to me on the basis of satisfactory evidence to be the person whose
name is subscribed to the within instrument and acknowledged to me that (s)ne) executed the
same in his (her) authorized capacity, and that by his her) signature on the instrument the
person or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.
WINONA C. ORANGE WINONA C. ORANGE Commission # 1298145 Notary Public - California Notary Public - California Santa Clara County My Comm. Expires Apr 1, 2005 Notary Public Notary Public
STATE OF CALIFORNIA] Santa] COUNTY OF Clara
on 02-12-02 MAN before me, WINOWA C. DRANGE, Public
personally appeared ALEXANDER H. NICKEL,
personally known to me
OR proved to me on the basis of satisfactory evidence to be the person whose
name is subscribed to the within instrument and acknowledged to me that (she) executed the
same in his ther) authorized capacity, and that by his ther) signature on the instrument the
person or the entity upon behalf of which the person acted, executed the instrument.
WITNESS my hand and official seal.
WINONA C. ORANGE Commission @ 1298145 Notary Public - California Santa Clara County Notary Public